

HW_10

1. What does `FILTER(Sales, Sales[Amount] > 1000)` return?

Table with rows Sales where Amount columns greater than 1000

2. Write a measure High Sales that sums Amount where Amount > 1000 using `FILTER`.

The answer is in the powerBi file

3. How does `ALLEXCEPT(Sales, Sales[Region])` differ from `ALL(Sales)`?

`ALL(Sales)` - removes all filters from Sales Table

Where as 2nd option removes fillters except Region

4. Use `SWITCH` to categorize Amount:

```
"Medium" if 500-1000
"High" if > 1000 ``
```

The answer is in the powerBi file

5. What is the purpose of `ALLSELECTED`?

It respects slicers and page filters but ignores visual filters

6. Write a measure Regional Sales % showing each sale's contribution to its region's total (use `ALLEXCEPT`).

The answer is in the powerBi file

7. Create a dynamic measure using `SWITCH` to toggle between `SUM`, `AVERAGE`, and `COUNT` of Amount.

The answer is in the powerBi file

8. Use `FILTER` inside `CALCULATE` to exclude "Furniture" sales (`Products[Category] = "Furniture"`).

The answer is in the powerBi file

9. Why might `ALLSELECTED` behave unexpectedly in a pivot table?

It's because it keeps slicer selections but might not include row or column filters from pivot

10. Write a measure that calculates total sales and ignores filters from region

The answer is in the powerBi file

11. Optimize this measure:

```
High Sales = CALCULATE(SUM(Sales\Amount), FILTER(Sales, Sales\Amount > 1000)) (Hint: Replace FILTER with a Boolean filter inside CALCULATE.)
```

The answer is in the powerBi file

- 12.** Write a measure Top 2 Products using TOPN and FILTER to show the highest-grossing products.

The answer is in the powerBi file

- 13.** Use ALLSELECTED with no parameters to respect slicers but ignore visual-level filters.

The answer is in the powerBi file

- 14.** Debug: A SWITCH measure returns incorrect values when fields are added to a matrix visual.

SELECTEDVALUE()-doesn't return a value where there are multiple values are selected in the matrix

- 15.** Simulate a "reset filters" button using ALL in a measure.